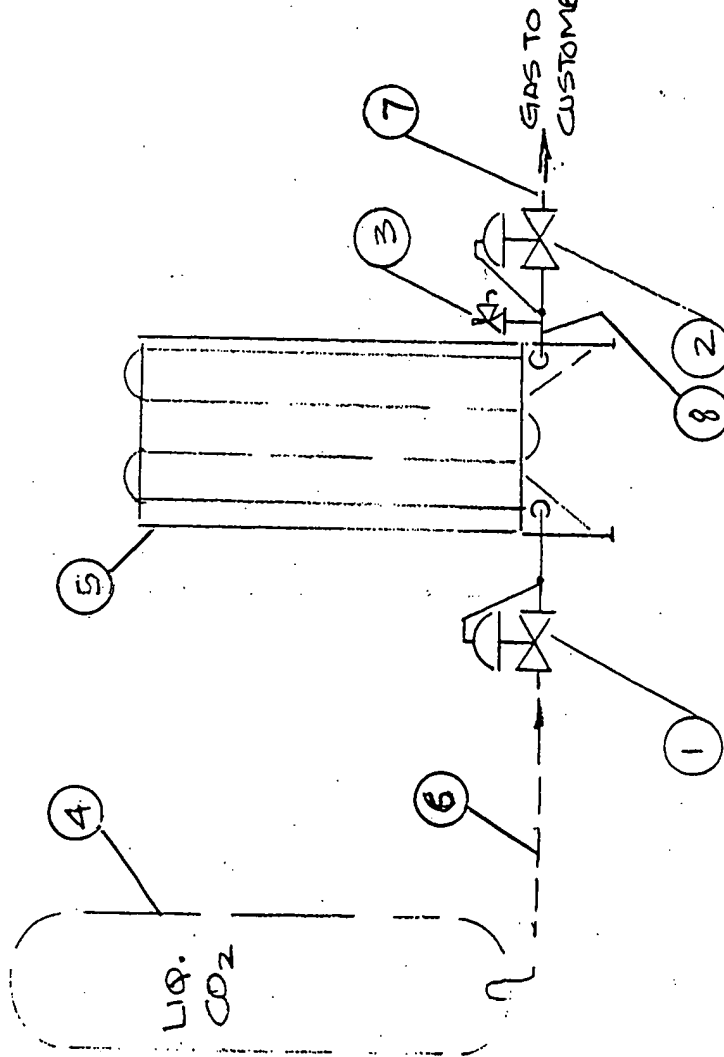


Drawg. Sheet 1
(S 57-1 P)

VALVE KIT COMPONENTS

- 1 LIQUID CO₂ DOWNSTREAM PRESS. RED-
UCING REGULATOR TO REDUCE LIQUID
FEED PRESSURE TO VAPORIZER TO
ALLOW LOWER VAPORIZATION TEMP.
(SET BETWEEN 90PSIG MIN TO 250PSIG
PER CHART 1, BULL 3.9A.
- 2 VAPORIZER BACK PRESSURE REGULATOR
TO MAINTAIN PRESSURE IN THE VAPORIZER
ABOVE THE TRIPLE POINT/FREEZE POINT
SET MIN ABOUT 90PSIG (-55°F)
NOTE: TRIPLE POINT IS -69.9°F AND
75.10 PSIA.
- 3 VAPORIZER RELIEF VALVE (SET
75 PSIG. MIN AND BE ABOVE
CUSTOMER LINE PRESS.).



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THERMAX PRESS-TROL
CO₂ LIQUID PRESS REDUCTION
WITH ANTI-FREEZE-UP TRIPLE-
POINT PROTECTION BACK PRESS REG.



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Drawg. Sheet 2
 (557-2P)

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AS VAPOR IS WITHDRAWN VIA THE REGULATOR. (VAPOR PRESSURE REDUCTION) THE LIQUID IN THE TANK COOLS BELOW ATMOSPHERIC TEMPERATURE, AND THE PRESSURE IN THE TANK IS REDUCED. HEAT IS ABSORBED THROUGH THE TANK SURFACE, WHICH RESTORES THE PRESSURE AS THE LIQUID WARMS. THE ATMOSPHERIC VAPORIZER INCREASES THE AMOUNT OF HEAT WHICH IS AVAILABLE TO RESTORE THE TANK PRESSURE. THE PRESSURE BUILD-UP REGULATOR REDUCES THE TEMPERATURE IN THE PRESSURE BUILD-UP VAPORIZER INCREASING THE VAPORIZER CAPACITY.

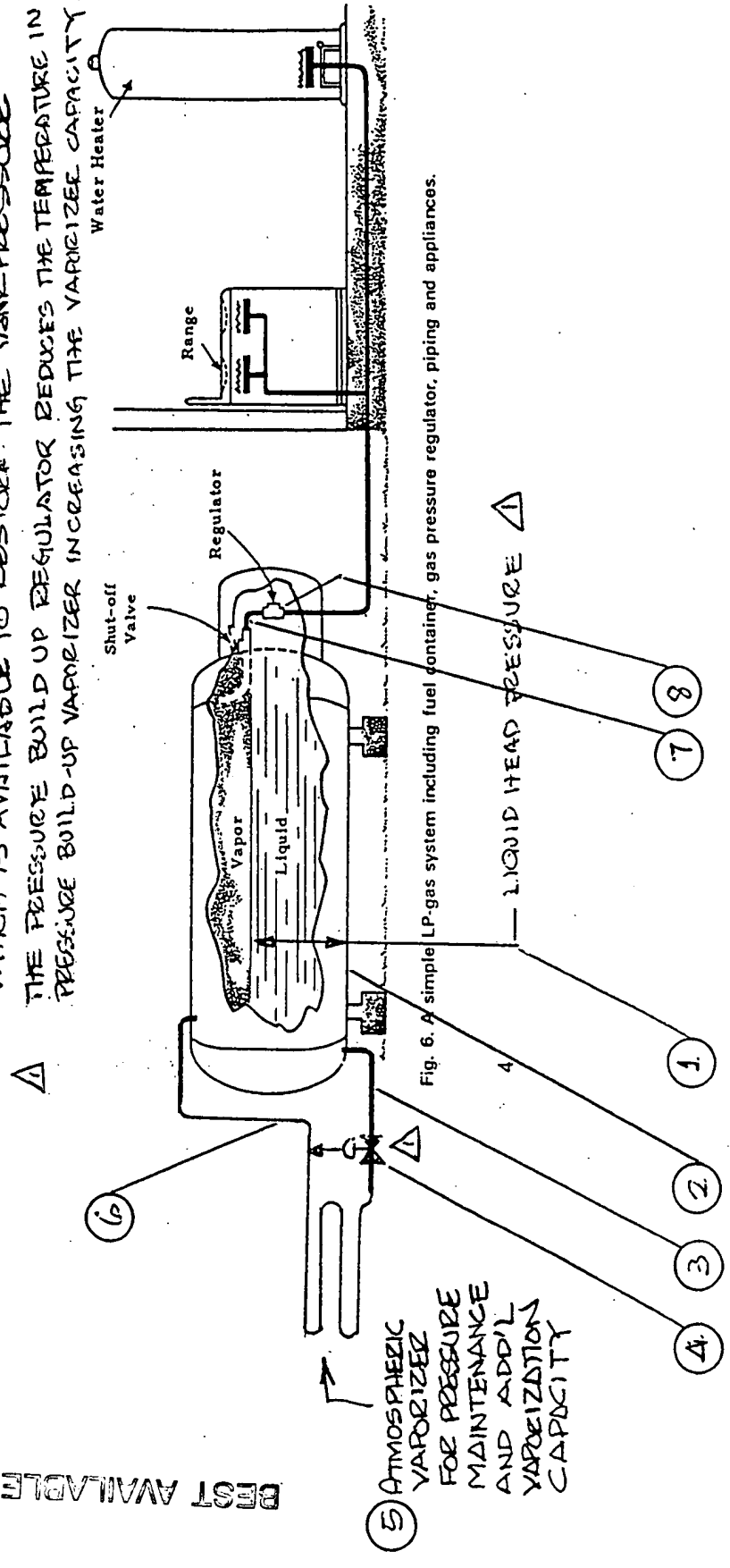


Fig. 6. A simple LP-gas system including fuel container, gas pressure regulator, piping and appliances.

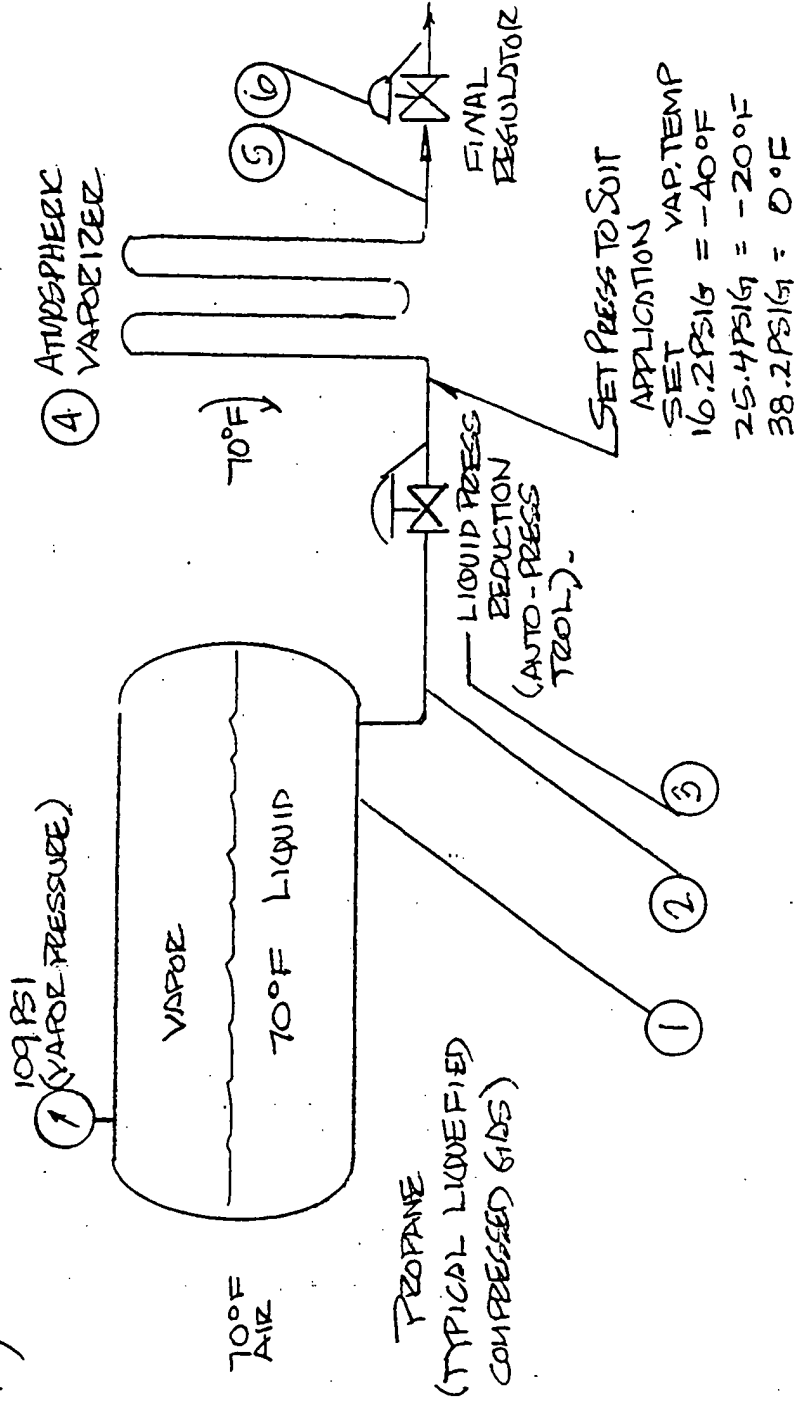
ATMOSPHERIC TEMPERATURE
 STORAGE TANK WITH
 AUXILIARY ATMOSPHERIC
 VAPORIZER

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557-2P
 557-2P

Drwg. Sheet 3
(557-3P)

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PROPANE IS TYPICAL
ANY COMPRESSED-LIQUEFIED GAS IS APPLICABLE FOR THIS PROCESS

AMBIENT AIR VAPORIZATION OF
COMPRESSED-LIQUEFIED GASES
STORED AT AMBIENT TEMPERATURES
USING AUTO-PRESS TOOL.



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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

WARNING

HANDLING PRESSURIZED, HOT, CRYOGENIC AND/OR FLAMMABLE FLUIDS AND EQUIPMENT SHOULD BE DONE ONLY BY EXPERIENCED PERSONNEL. REFER TO APPROPRIATE NFPA, CGA, AGA, ASME OR OTHER MANUAL A/O TECHNICAL DATA FOR REQUIRED SAFETY PROCEDURES.